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Office Memorandum • UNITED STATES GOVERNMENT

TO

DATE: 22 March 1966

25X1A9a

FROM

SUBJECT: Modified Numbering Module Test Results

*ops (10000) No. 1
Numbering unit at
St. D. Once each 2 hrs
fit*

The modified numbering module was wired to send ESA and placed upon WASH/ALFA circuit (100 wpm - 24 hour service) on 29 January 1966. Instructions were issued to operators and technicians stating that under no circumstances was contact cleaner or any work to be performed upon this module.

The following is a breakdown of the module's performance:

1. Placed upon circuit 20 January 1966
2. Removed from circuit 21 February 1966 with a message count of 4044
3. Module was placed on a simulated position 21 February and completely cycled 9 times for a total of :
 $999 \times 9 = 8991$ operations
4. 22 February module was again cycled 6 complete times for a total: $999 \times 6 = 5994$ operations
5. The module was returned to operations on 22 February and removed 22 March at 0830. A total of 3638 operations was logged during this period.
6. Totals:
 3638 messages
 4044 messages
 8991 tests
 5994 tests

 $22,667$ test and operational total

This module has performed as a trouble-free unit during the entire test period. It required no attention other than test observations. Distortion was checked on both the modified module and the replaced unmodified module with the following results:

(DAC V at input KW-26 jack)

- A. Modified Module:
 $10-12\%$ total peak
0 mark bias
 $10-12\%$ space bias
- B. Unmodified Module:
 $16-18\%$ total peak
0 mark bias
 $16-18\%$ space bias

The same readings were observed using the modified module before removing it 22 March for return to Engineering.